1 1 MAY 1992

THE

ENTOMOLOGIST'S MONTHLY MAGAZINE

World List Abbreviation, 4th ed. (1963): Entomologist's mon. Mag.

EDITED BY

Prof. Sir Richard SOUTHWOOD, D.Sc., F.R.S., F.R.E.S.
M. G. MORRIS, M.A., Ph.D., F.I.Biol., F.L.S., F.R.E.S.
K. G. V. SMITH, C.Biol., F.I.Biol., F.L.S., F.R.E.S.
J. W. ISMAY, B.Sc., Ph.D., F.R.E.S.
P. M. HAMMOND, M.A., F.R.E.S.
W. R. DOLLING, B.Sc., F.R.E.S.

VOLUME 127

'J'engage donc tous à éviter dans leurs écrits toute personnalité, toute allusion dépassant les limites de la discussion la plus sincère et la plus courtoise.' — Laboulbène.

THE ENTOMOLOGIST'S MONTHLY MAGAZINE BRIGHTWOOD BRIGHTWELL, WALLINGFORD, OXON OX10 0QD 1991

CONTENTS

| CONTRIBUTORS | iii |
|---|------|
| GENERAL INDEX | iv |
| SPECIAL INDEX – | |
| ARACHNIDA | viii |
| COLEOPTERA | viii |
| COLLEMBOLA | xi |
| DERMAPTERA | xi |
| DICTYOPTERA | xi |
| DIPLURA | xi |
| DIPTERA | xi |
| EPHEMEROPTERA | xiii |
| HEMIPTERA | xiii |
| HYMENOPTERA | xiii |
| ISOPTERA | xv |
| LEPIDOPTERA | xv |
| ODONATA | XV |
| ORTHOPTERA | xv |
| PLECOPTERA | XV |
| PSOCOPTERA | XV |
| SIPHONAPTERA | XV |
| THYSANOPTERA | XV |
| TRICHOPTERA | xv |
| GROUPS OTHER THAN INSECTA AND ARACHNIDA | xv |
| ERRATA AND CORRIGENDA | xvi |

DATES OF PUBLICATION

| January/February/March/April | 12th April 1991 |
|-------------------------------------|--------------------|
| May/June/July/August | 29th July 1991 |
| September/October/November/December | 25th November 1991 |

INDEX

This index covers the year 1991 (Vol. 127). Items occurring on the wrappers are indicated by Roman numerals. Prepared by Mrs A.V. Smith.

INDEX TO CONTRIBUTORS

Allen, A.A., 25, 106, 143, 144, 204, 214 Archer, M.E., 34, 76, 161, 225, 241 Askew, R.R., 29, 205 Bacchus, M.E., 209 Badmin, J., 196, 242 Barrington, R., 118 Beaver, R.A., 53 Ben-Dov, Y., 49 Bilton, D.T., 24, 52, 56, 118, 149, 160, 176, 196, 218 Bouček, Z., 190 Chvála, M., 11 Claridge, M.F., 220 Cooter, J., 71, 255 Crowson, R.A., 150 De Meyer, M., de Rougemont, G.M., 221 Dike, M.C., 199 Disney, R.H.L., 73, 119 Drake, C.M., 121 Drummond, D.C., 151 Dudgeon, D., 45 Duff, A.G., 189 Eason, E.H., 23 Edmunds, M., 45 Edwards, M., 108, 118 Fayza, H.A., 37 Felton, C.F., 17, 252 Fox, A.D., 253 Gayubo, S.F., 127 George, R.S., 195 Giller, P.S., 77 Gillies, M.T., 109 Good, J.A., 77 Graham, M.W.R. de V., 7, 55, 117, 177, 197 Guichard, K.M., 71 Hall, M.J.R., 27, 223 Hanapi, S.B., 29 Hancox, M., 251

Harris, K.M., 36, 97 Hodge, P.J., 12, 72, 90, 116 Horsfield, D., 28, 116, 137, 156, 190

Huddleston, T., 191

Huddleston, 1., 191 Ismay, J.W., 243 Jessop, L., 256 Johnson, C., 91 Jones, T.A., 253 King, G., 43 Kirby, P., 38, 150, 158, 250 Laurence, B.R., 139 Luff, M.L., 42

MacGowan, I., 138, 219 Majerus, M., 54, 167, 176 Meyer-Arndt, S., 61

Meyer-Arndt, S., 61 Miles, P.M., 90 Nelson, J.M., 39 New, T.R., 35 Notton, D.G., 123, 159 O'Connor, J.P., 70 Owen, D.F., 107 Owen, J.A., 144, 198

Plant, A.R., 156 Quicke, D.L.J., 19, 191 Reid, C.A.M., 24

Robertson, A., 165 Rotheray, G.E., 48 Sarhan, A.A., 19

Savage, A.D., 145 Service, M.W., 122 Shaw, M.R., 48, 157

Sinclair, M., 144 Smith, A.P.L., 34 Smith, K.G.V., 9, 34, 44, 51, 60, 72, 95, 106, 115, 160, 164, 198, 208, 224, xi Southwood, T.R.E., 97 Spencer, K.A., 57

Spriggs, A.H. Kirk-, 209 Verdcourt, B., 143 Wardlaw, J.C., 233

Wardle, J., 42 Whitehead, P.F., 10, 17, 18, 96, 116, 158,

164, 197 White, I.M., 52 Winter, T.G., 13 Wyatt, N.P., 1

GENERAL INDEX

Aegean Islands and Western Turkey, a new species of Fieberiella Signoret (Hem., Cicadellidae), from, and with new locality records for the genus, 61 Africa, a new species of Afroptilum (Afroptiloides) (Ephem., Baetidae), from East, 109

Aggregation, large of Legnotus limbosus (Geoffroy), (Hem., Cydnidae), 150 Arum dioscoridis Sm. and A. orientale B. Bieb., insects visiting, 151

Association involving Carpelimus lindrothi Palm and Atheta basicornis (Mulsant & Rey) (Col., Staphylinidae), 197
Australasian Scolytidae (Col.), reclassification of some, 53
Australasian Scolytidae (Col.), reclassification of some, 53

Authorship and dating of the family Hybotidae (Dipt., Empidoidea): a correction, 11 Badger dung, the insect fauna of, 251

Bat fleas (Siphonaptera) in the Channel Islands, 195

Berkshire, a recent record of Staphylinus ophthalmicus Scopoli (Col., Staphylinidae) in, with a note on its prey, 176; Phytoecia cylindrica (L.) (Col., Cerambycidae) at Maidenhead, 143

Biology of the sawfly, Pontania collacteana (Förster) (Hym., Tenthredinidae), 29

Britain, Aspilota intermediana Fischer, a fungicolous braconid (Hym.) new to, 159; exotic bark beetles (Col., Scolytidae) on timber imports into, 1980-1988, 13; Phrudus badensis Hilpert (Hym., Ichneumonidae) new to, 157; Platypalpus rapidoides Chvála (Dipt., Empididae) new to, 219; Trichosia hirtipennis (Zetterstedt) (Dipt., Sciaridae)

new to, 43

British, Badister meridionalis Puel 1925 (Col., Carabidae) reconfirmed as, 116; capture of Piezura boletorum (Rond.) (Dipt., Muscidae), earliest known, 204; Coleoptera some noteworthy records of, 90; Dolichopodidae (Dipt.) records of some notable, 25; record(s) of Perigona nigriceps Dejean (Col., Carabidae), its habitat and associated fauna, a further, 10; records of exotic invertebrates, 96; of Erippis connexa Germar (Col., Coccinellidae), a first, 176; species of Lasiosina Becker and Pseudopachychaeta Strobl (Dipt., Chloropidae), 243

Buckinghamshire, notes on distribution of Myllaena spp. (Col., Staphylinidae) in, 24 Carlisle, Porcellio dilatatus Brandt and Porcellionides pruinosus (Brandt) (Isopoda:

Porcellionidae) in, 56

Channel Islands, bat fleas (Siphonaptera) in, 195

Chile, Malaise trap catches of Psocoptera from Magallanes, Southern, 35 Correction, Cryptocephalus querceti Suffr. (Col., Chrysomelidae), 106

Cryptic behaviour in the Oriental leaf mantis Sinomantis denticulata Meier (Dictyoptera,

Mantodea), 45
Cumberland, Hallomenus binotatus (Quensel) (Col., Melandryidae) in, 52; Hydraena pygmaea Waterhouse (Col., Hydraenidae) in, 24; Pterostichus angustatus (Duftschmid) (Col., Carabidae) in Westmorland and, 118; Staphylinus nero Faldermann (Col., Staphylinidae) in north, 196

Cumbria, recent records of Hercostomus angustifrons Staeger (Dipt., Dolichopodidae)

in Shropshire and, 121

Devon, a mid-winter colony of Bombus terrestris L. (Hym., Apidae) in, 165; Diglotta submarina (Fairm. & Lab.) (Col., Staphylinidae) in North, 160; notable wasps and bees (Hym., Aculeata) in, during 1985, 76

Diet of predatory staphylinid beetles - a review of records, 77

Distribution of the centipedes Lithobius obscurus Meinert and L. peregrinus Latzel (Chilopoda, Lithobiomorpha), 23

Dorset, notable wasps and bees (Hym., Aculeata) in, during 1985, 76; Thinobius brevipennis Kiesenwetter (Col., Staphylinidae) apparently new to, 255

Dung, badger, the insect fauna of, 251

Earliest known British capture of *Piezura boletorum* (Rond.) (Dipt., Muscidae), and its more recent occurrence amongst fungi, 204

England, Eumenes papillarius (Christ) (Hym., Vespidae) in, 71; notes on the distribution of Myllaena spp. (Col., Staphylinidae) in Buckinghamshire and north-west, 24 Exotic bark beetles (Col., Scolytidae) on timber imports into Great Britain, 1980–1988,

13; invertebrates, some British records of, 93 Fungi, occurrence of Piezura boletorum (Rond.) (Dipt., Muscidae), among, 204

Gloucestershire, notable wasps and bees (Hym., Aculeata) in, during 1985, 76

Hampshire, notable wasps and bees (Hym., Aculeata) in, during 1988, 34

Host plant record(s), additional for Eupteryx filicum (Newman) (Hem., Cicadellidae), 196; a new for Platyrhinus resinosus (Scopoli) (Col., Anthribiidae), 18; of British ladybirds (Col., Coccinellidae), 167, unusual for some Heteroptera (Hem., Miridae, Pentatomidae), 38

Host records, Diptera, for species of Basalys and Trichopria (Hym., Diapriidae), 123

Iberian Peninsula, the genus Philanthus F. (Hym., Sphecidae) in, 127

Identity of *Dynatognus* Mayr (Hym., Agaonidae, Sycophaginae), 190; of *Tetrastichus mikrzeckii* Kurdjumov (Hym., Eulophidae), 117; of the genus *Stomoctea* Dufour, 1846 (Hym., Chalcidoidea), 55; of the rare pollen beetle Meligethes brevis Sturm (Col., Nitidulidae), and its status in Britain, 99

Inland records of Chlorosoma schillingi (Schummel) (Hem., Rhopalidae), further, 250

Isle of Wight, notable wasps and bees (Hym., Aculeata) in, during 1988, 34 Kent, rediscovery of *Pediopsis tiliae* (Germar) (Hem., Cicadellidae) in, 242 Life history of *Dicyphus pallicornis* (Meyer-Dür) (Hem., Miridae), 158

Localised British beetles, some further records of, 158
London, *Phania funesta* Meigen (Dipt., Tachinidae) in North, 9
Marsham, R. & Stephens, J.F., *Meligethes* (Col., Nitidulidae) described by, with changes in nomenclature and type designation, 209

Melanic form of Tytthaspis sedecimpunctata L. (Col., Coccinellidae), 54 Merseyside, Ectobius pallidus (Olivier) (Dictyopt., Blatellidae) on, 252

Middlesex, Bombylius canescens Mikan (Dipt., Bombyliidae) in North London, 160; Brachyopa insensilis Collin (Dipt., Syrphidae) in North London, 208; Leopoldius signatus (Wiedemann) (Dipt., Conopidae) in North London, 164; Metrioptera roeselii (Hagenbach) (Orth., Tettigoniidae) in North London, 224; Phania funesta Meigen (Dipt., Tachinidae) in, 9

Mongolia, a new species of Bracon (Hym., Braconidae) from, 19 Monitoring, Opiliones (Arachnida) at a single site, ten years of, 107 Nearctic dung-flies (Dipt., Scathophagidae), prestomal teeth of, 39

Nepal, a new species of Rhynchomicropteron (Dipt., Phoridae) from, 119

Nest-building by Eumenes coarctatus (L.) (Hym., Eumenidae) on a West Sussex heathland, 118

New Forest, notable wasps and bees (Hym., Aculeata) in, during 1988, 34

New Zealand, a new Cephalops Fallén 1810 (Dipt., Pipunculidae) species from, 215 Nicotiana, Dicyphus errans (Wolff) (Hem., Miridae) breeding on, 214

Nigerian species of Atherigona Rondani (Dipt., Muscidae), descriptions of the females of

three, 199 Norfolk, Atheta (Philhygra) hygrobia (Thomson) (Col., Staphylinidae) in west, 149; second European species of *Cryptoprymna* Förster (Hym., Pteromalidae) described from, 205; *Vanoyia tenuicornis* (Macq.) (Dipt., Stratiomyidae) in west, 144 Northern Isles, *Calliphora uralensis* Vill. (Dipt., Calliphoridae) in the, 139

Northumberland, Trechus rivularis (Gyll.) (Col., Carabidae) in, 42

Number of species that can be recognised within the genus Vespa (Hym., Vespinae), 161

OBITUARY - Edward Wrigley Aubrook, 91

Oriental leaf mantis Sinomantis denticulata Meier (Diptyopt., Mantodea), 45

Oriental Region, a new rugaspidiotine genus and species (Hom., Coccoidea, Diaspidae) from the, 49

Oriental Scolytidae (Col.) reclassification of some, 53

Orkney, Tipula limbata Zett. (Dipt., Tipulidae) new to, 116

Oviposition behaviour and generation time in Ischnura pumilio (Charpentier) (Odon., Coenagriidae), 253

Peru, the extraordinary genus Gnathobracon Costa (Hym., Braconidae, Braconinae) with the description of a new species from, 191

Predatory beetles, a review of records of the diet of, 77

Prestomal teeth of dung flies (Dipt., Scathophagidae), with special reference to Nearctic

Queens, two, of Bombus terrestris (L.) (Hym., Apidae) found hibernating in an old Cupressus stump, 108

Rain pools: significant breeding sites for chironomid midges (Dipt.) in Sudan, 37

Recent records of Lamprinodes saginatus (Gravenhorst) (Col., Staphylinidae) in Britain,

Record(s), of Colon dentipes (Sahlberg) (Col., Colonidae), a further, 71; two modern, of Carpelimus schneideri (Ganglbauer) (Col., Staphylinidae), 144

REVIEWS - Bailey, W.J. & Smith, J. Ridsdill (eds), 1991, Reproductive Behaviour of Insects, Individuals and Populations, 220; Barjac, H. de & Sutherland, D.J., 1990, Bacterial Control of Mosquitoes and Black Flies: Biochemistry, Genetics and Applications of Bacillus thuringiensis and Bacillus sphaericus, 122; Booth, R.G., Cox, M.L. & Madge, R.B., 1990, IIE Guides to Insects of Importance of Man, 3, Coleoptera, 256; Crosskey, R.W., 1990, The Natural History of Blackflies, 198; Dahlsten, D.L. & Garcia, R., 1989, Eradication of Exotic Pests, 97; Emmet, A.M. & Heath, J., 1989, The Moths and Butterflies of Great Britain and Ireland, 7(1) the Butterflies, 72; Feijen, H.R., 1989, Diopsidae (Flies of the Nearctic Region), 52; Gilbert, P. & Hamilton, C.J., 1990, Entomology: a Guide to Information Sources, 60; Hillyard, P.D. & Sankey, J.L.P., 1989, Harvestmen (Synopses of the British Fauna), 106, Hodgson, E. & Kuhr, R.J., 1990, Safer Insecticides: Development and Use, 36; International Atomic Energy Agency, 1990, Sterile Insect Technique for Tsetse Control and Eradication, 223; Kettle, D.S., 1990, Medical and Veterinary Entomology, 115; Morris, M.G., 1990, Orthocerous Weevils. Coleoptera Curculionoidea (Handbk Ident. Br. Insects), 95; Mound, L., 1989, Common Insect Pests of Stored Food Products: a Guide to Their Identification, 44; Nature Conservancy Council, 1990, Woodland Rides and Glades: Their Management for Wildlife (M.S. Warren & R.J. Fuller), Coppiced Woodlands: Their Management for Wildlife (R.J. Fuller & K.J. Fuller), Coppieed Woodlands: Their Management for Wildlife (K.J. Fuller & M.S. Warren), 96; Seymour, P., 1989, Invertebrates of Economic Importance in Britain, Common and Scientific Names, 51; Smith, K.G.V., 1989, An Introduction to the Immature Stages of British Flies (Diptera) (Handbk Ident. Br. Insects), 27; Spencer, K.A., 1990, Host Specialization in the World Agromyzidae (Diptera), 97; Syácha, P. & Dailevsky, M.L., 1987, 1988, 1989, Cerambycid Iarvae of Europe and the Soviet Union, 150; Ver eech, G.K., Mallick, B. & Viraktamath, C.A. (eds), 1990, Social Insects and Their Environment, 241; Wallace, I.D., Wallace, B. & Philipson, G.N., 1990, A Key to the Case-bearing Caddis Larvae of Britain and Ireland, 70; Wright, A., 1990, British Sawflies (Hym. Symphyta) a Key to Adults of the Genera Wright, A., 1990, British Sawflies (Hym., Symphyta), a Key to Adults of the Genera Occurring in Britain (Field Studies), xi

Ross, Diprion simile (Hartig) (Hym., Symphyta) and other sawflies in Wester, 138 Scotland, another record of Alophora hemiptera (F.) (Dipt., Tachinidae), in, 28; Anthrenus sarnicus Mroczkowski (Col., Dermestidae), in, 48; Dryops similaris Bollow (Col., Dryopidae) new to, with notes on subfossil and Siberian records, 218; some insect records from Tanera More, Summer Isles, Ross, 34

Scottish Highlands, Botanophila moriens (Zett.) (Dipt., Anthomyiidaae) at high altitude in the, 190; further records of Spilogona alpica Zett. (Dipt., Muscidae) from the, 28;

Phytodecta pallida (L.) (Col., Chrysomelidae) at high altitude in the, 137

Second species of Paratolmerus Cameron (Col., Staphylinidae, Quediinae), 221

Shropshire, recent records of *Hercostomus angustifrons* Staeger (Dipt., Dolichopodidae) in Cumbria and, 121

Somerset, Cis coluber Abeille (Col., Cisidae) in North, 189; notable wasps and bees (Hym., Aculeata) in, during 1985, 76

South Africa, a new economically important species of Penetagromyza (Dipt., Agro-

myzidae) from, 57
Stephens, J.F. & Marsham, R., Meligethes (Col., Nitidulidae) described by, with changes in nomenclature and type designation, 209

Sudan, rain pools: significant breeding sites for chironomid midges (Dipt). in, 37

Surrey, Bibloplectus delhermi Guilleau (Col., Pselaphidae) in, 198

Sussex, Aegialia sabuleti (Panz.) (Col., Scarabaeidae) in West, 90; Diaperus boleti L. (Col., Tenebrionidae) rediscovered in East, 116; observations of nest building by Eumenes coarctatus (L.) (Hym., Eumenidae) on a heathland in West, 118; Symbiotes latus Redt. (Col., Endomychiidae) in East, 72; Uleiota planata (L.) (Col., Cucujidae) in East, 12

Swarming behaviour of *Bicellaria simplicipes* (Zetterstedt) (Dipt., Hybotidae), 156 Tanera More, Summer Isles, Ross, Scotland, some insect records from, 34

Taxonomy and bionomics of the Vespa tropica group (Hym., Vespinae), 225

Techniques for rearing Myrmica ants (Hym.) and Maculinea rebeli Hir. caterpillars

(Lep., Lycaenidae), 233 Turkey and Aegean Islands, a new species of *Fieberiella* Signoret (Hem., Cicadellidae)

from, with new locality records for the genus, 61

Type material in the University Museum, Oxford, of one Kirby and five Walker species of Eulophidae) (Hym., Chalcidoidea) with new synonymy and designation of lectotypes, 7 Valid species of the genus Entedon Dalman (Hym., Eulophidae), Eulophus tibialis (Nees) is a, 197

Variation in the diagnostic morphological features of Corixa punctata (Illiger) and Corixa iberica Hansson (Hem.-Het., Corixidae), 145

Vice-county records, new, for Uleiota planata (L.) (Col., Cucujidae), 17

Western European species of *Ericydnus* Haliday (Hym., Encyrtidae), revision of, including one species new to science, 177

Westmorland, Pterostichus angustatus (Duftschmid) (Col., Carabidae) in Cumberland and, 118

Wing veins of Phoridae (Diptera), support for the revised interpretation of, 73 Worcestershire, *Anotylus hamatus* (Fairm. & Lab.) (Col., Staphylinidae), new to, 10

SPECIAL INDEX

New genera, and species, etc., are indicated by heavy type, genera and species new to Britain by an asterisk (*).

ARACHNIDA

Acari 78-9, 81, 84 Aranae 79, 82 cassava green mite 97 Centruroides margaritatus 96 Dicranopalpus ramosus 107-8 harvestmen 106 Heteropoda 96 Leiobunum blackwalli 108; rotundum 107 - 8mites 115, 242 Mitopus morio 107-8; m.v. ericaeus 106 Nelima gothica 108 Odiellus spinosus 107-8 Oligolophus tridens 108 Opilio parietinus 108; saxatilis 107–8 Opiliones 106 Paroligolophus agrestis 108 Phalangium opilio 108 Sabacon viscayanum ramblaianum 106 spider toxins, venoms 36 spiders 242 Tetranychidae 78-9, 81 ticks 115 whip scorpions 242

COLEOPTERA

Acalles turbatus 90 Acanthophorus spinicornis 96 Acylophorus 221 Adalia 2-punctata 170, 174; 10-punctata Adonia variegata 169 Aegialia sabuleti 90 Aepus robini 160 Agathidium nigripenne 18 Aleochara 77; bilineata 78, 81; bimaculata 81; bipustulata 10, 81; curtula, haemorrhoidalis 78; inconspicua 81; lanuginosa, lata 78; moesta, puberula, taeniata, tristis, sp. 81; spp. 251; larvae Aleocharinae 77 Aloconota gregaria 81 Amara aenea 34 Anatis ocellata 173 Anchocerus 221 Anisostincta 19-punctata 169 Anoeme 150 Anomognathus cuspidatus 18 Anoplodermatidae 150 Anotylus 85, 155; clypeonitens, complanatus, hamatus 10; insignitus 78; inustus 152; rugosus 78, 82, 84-5; sculpturatus 82; sp. 82, 84

Anthicus floralis 10 Anthobium 78, 85; atrocephalum 78; unicolor 78, 251 Anthophagus omalinus 78 Anthrenus sarnicus 48 Anthribidae, Anthribius 95 Apatophyseinae 150 Aphidecta obliterata 169 Aphodius ater, prodromus 251; signifer Apion vorax 95 Apionidae 95 Apocellus 77 Apoderus 95 Atheta 85; atramentaria 152; basicornis 197; coriaria 82, 84–5; fungi 78, 82; hygrobia 149; hypnorum 78; parvula, pertyi 152; trinotata 152; spp. 81-21 sp. A, sp. B, sp. C. 152 Atholus duodecimstriatus 10 Atrecus affinis 82 Attelabidae, Attelabus 95 Autalia impressa 251 Badister bipustulatus, bullatus, meridionalis 116 Balanobius salicivorus 33 beetles 242 Belonuchus rufipennis 82, 84 Bibloplectus delhermi, intermedius, pusillus 198 Bithynus burelli 90 Bledius 77; atricapillus, germanicus, tricornis 144 Blethisa multipunctata 116 Bolitophagus reticulatus 156 Brachypterus urticae 213-4 Bruchus rufimanus 18 Cafius xantholoma 78 Callicerus rigidicornis 78 Calva 14-guttata 172 Cantharis abdominalis, obscura 90 carabid adults, larvae 80 Carabidae 176 Carpelimus elongatulus, lindrothi 197; pusillus 10; schneideri 144 Catops nigrita, spp. 251 Cerambycidae larvae 150 Cercyon convexiusculus 197; haemorrhoidalis v. discoidalis 154; lateralis, lugubris, melanocephalus, subsulcatus, spp. 251 Cerylon fagi 158 Chilocorus renipustulatus 168, 173; 2-pustulatus 173 Chlaenius nigricornis 116 Chrysolina staphylea 137 Cicindelidae 256

Cilea silphoides 10

Cis bidentatus 156; coluber 189; nitidus 156 Cleonus nebulosus 90 Coccinella hieroglyphica, magnifica 171; 5-punctata 170-1; 7-punctata 170; 11-punctata 171 Coleoptera 81, 83, 238; adults 79, 82; eggs 79, 82-4; immatures 79; larvae 79, Colon dentipes 71 Coprophilus 77 Cordalia obscura 10 Creophilus erythrocephalus 78; maxillosus 78, 82; villosus 79 Cryphomorphus bicolor, striatulus 53 Cryphalus bicolor 53 Cryptocephalus querceti 106 Cryptopleurum minutum 251 Crypturgus borealis, pusillus 15; subcribrosus 14-5; sp. (? hispidulus) 15 Cucujus cinnaberinus 17 curculionid immatures 79-81; larvae 79 Dendroctonus brevicornis 13, 15; micans 13-4; ponderosae 13; pseudotsugae, rufipennis 13, 15 Dendrophagus 18 Dendrophilus punctatus 90 Diaperis boleti 116 Dicax sp. 79 Diglotta mersa, submarina 160 Dinaraea angustula 79 Dorcosomus 150
Dorytomus longimanus 18
Drusilla caniculata 79, 82
Dryocoetes affaber 15
Dryops similaris 219
Epiphanus cornutus 18
Epuraea variegata, spp. 251
elaterid adults, larvae 80
Esolus 24 Disteniidae 150 Epitrix atropae 90 Eriopis *connexa 176
Eusphalerum 77 Eusphalerum 77 Exochomus 4-pustulatus 173-4 Falagria sp. 82 Gabrius pennatus 10 Gauropterus fulgidus 10 Geostiba circellaris 82 Grammoptera variegata 90 Gyrohypnus fracticornis 10 Gyrophaena 77 Haliplidae 256 Hallomenus binotatus 52 Halyzia 16-guttata 172, 174 Harmonia 4-punctata 171–2 Harpalus rufipes 256 Hesperobium californicum 79 Heterocerus flexuosus 144 Hippodamia 13-punctata 168 Hister carbonarius 251; merdarius 10; spp.

Hydraena pygmaea 24

Hylastes ruber 15 Hylecoetus dermestoides 90 Hylurgopinus rufipes 13 Hylurgops porosus, rugipennis 15 Hypothenemus 54; brownei 53; fijianus, quadridens 54; striatulus 53 Ilyobates subopacus 79 Ips amitinus 15; cembrae 13; duplicatus, latidens, pini 15; sexdentatus 13; typographus 13-4, 16 Japanese beetle 97 Judolia cerambyciformis 90 Lamprinodes saginatus 164 Lathridius pseudominutus 153 Lathrobium brunnipes 79; multipunctum 176 Leiodidae 256 Leiopus nebulosus 18 Leptacinus batychrus, socius 79 Leptusa pulchella, ruficollis 158 Lesteva pubescens 82 Lithocharis nigriceps 10 Lordithon thoracicus, sp. 79 Lucanidae 256 mealworms 238 Mecinus circulatus 90 Meligethes aeneus 99, 211-3; brevis 99-105; b.v. mutabilis 101; caeruleus 211; carinulatus 214; erythropus 209-10, 212-4; flavimanus 209-11; flavipes 211-3; latipes 209-12; morosus 211, 213; nigrescens 209-13; nigricornis 212; nigrina 210, 213; nigrinus 213; picipes 210-1; pictus 99, 105; rotundicollis, 211–2; ruficornis 209–10, 212–3; rufipes 209–10; serripes 213; solidus 99–100, 103; subcastaneus 209; subrugosa 210; urticae 211; viridescens 99; xanthocerus 209 Metamasius hemipterus 96 Miarus plantarum 90 Micralymma marina 160 Micropeplus 77 Monotoma testacea 10 Myllaena brevicornis, dubia, elongata, infuscata, intermedia, kraatzi, minuta Myrrha 18-guttata 172 Myzia oblongoguttata 173 Nanophyes 95 Necydalinae 150 Nehemitropia sordida 84 Nemonychidae 95 Neohyppus hametus 70 Neohypnus hamatus 79 Neophonus 77 Neophonus 77 Nephus 167 Nicrophorus humator 251; interruptus 90; vespilloides 251 Nitidula caerulea 211; erythropa 213-4; latipes 211-2; nigrina 213; ruficornis 212; subrugosa 213 nitidulid eggs 85

Platystethus 77; spp. 251 Nudobius lentus 18; modestus 82; Pogonocherus hispidulus 90 pugetanus 79, 84 Olibrus affinis 90 Oligota spp. 78-9, 81 Olophrum 85; consimile, piceum 79 Omalium 85; rivulare 79, 251; septentrionis Omosita depressa 90 Ontholestes cingulatus 82; murinus 79; tesselatus 251 Onthophagus ovatus, ?sellatus 154 Opsimus 150 Orthotomicus caelatus, proximus 16 Orus punctatus 79 Oryctes rhinoceros 256 Osoriinae 77 Othius laeviusculus 176; myrmecophilus 79, 82; punctulatus 79, 81-2 Otiorhynchus nodosus 90; sulcatus 256 Oxyomus sylvestris 154 Oxypeltidae 150 Oxypoda elongatula 79, 82; sericea 152; vittata 79 Oxyporus 77 Oxytelinae 77 Oxytelus laqueatus 251; sculpturatus 154, 251; sculptus 10, 152; tetracarinatus 251 Paederus alfierii 82; fuscipes 79, 82; littoralis 82; sp. 79 Parabathyscia wollastoni 10 Paratolmerus pilosiventris 221-2; siamensis 221-3 Passalidae 256 Pediacus dermestoides 17 Pelophila borealis 116 Perigona nigriceps 10 Phacophallus parampunctatus 10 Philhygra (s.g.) 149 Philonthus addensus 79; brunneus 79, 84; cognatus 79, 82, 84; concinnus 82; cruentatus 79, 82; cyanipennis 84; decorus 79, 82; fimetarius, flavolimbatus 82; intermedius 154, 251; laminatus 82; longicornis 79, 82, 84; marginatus 79, 251; misor, nitescens 82; nitidus 84; occidentalis 79; politus 251; rectangulus 82; sanguinolentus 82, 251; splendens 79, 82; subcingulatus, tenuicornis, theveneti 82; turbidus 80, 83; varius, wusthoffi 83; spp. 80, 83, 251 Philopodius praeda 53 Phloeodroma sp. 83-4 Phloeosinus bicolor 16 Phloiotrya vaudoueri 18 Phyllodecta polaris 137 Phymatodes testaceus 18, 90 Phytodecta pallida 137 Phytoecia cylindrica 143 Pityogenes plagiatus 16 Tachyporus 85; chrysomelinus 80-1, 83, Placusa pumilio 18 Platydracus cinnamopterus 83; stercorarius Tetropium gabrieli 90 80, 83 Thamiaraea hospita 81 Platypus cylindrus 90

Polygraphus rufipennis 16; subopacus 14; sp. (? punctifrons) 16 Propylea 14-punctata 172-3 Proteinus ovalis 251 Pseudohylesinus tsugae 16 Pseudopityophthorus minutissimus, pruinosus 13 Psyllobora 22-punctata 172 Ptenidium pusillum 10 Pterostichus angustatus 118 Ptiliidae 256 Pyrochroa coccinea 18 Quedius boops 83; fuliginosus 81, 83; lateralis 80, 83; luridus 80; mesomelinus 10, 83; molochinus 80, picipes 83; scitus Rhagium mordax 18 Rhagonycha translucida 90 Rhizophagus dispar 18 Rhopalodontus perforatus 156 Rhynchites olivaceus, sericeus 90 Riolus 24 Rugilis orbiculatus 10; salicivorus 33 Scierus annectens 16 Scolytogenes 54; praeda 53; quadridens 54 Scolytus 25; laevis 13, 138; laricis, unispinosus 13 Scydmaenus tarsatus 10 Sepedophilus 77 Siagonium 77; quadricorne 18 silphid larvae 80-1 Sinodendron cylindricum 156 Sphaeridium bipustulatum 251 staphylinid adults, larvae 80 Staphylinus aeneocephalus 80, 196; ater 10, 80, 83; badipes, brunnipes 80; compressus 80, 83; dimidiaticornis, fossator 80; maculosus 83-4; mysticus 80; nero 196; olens 80, 83, 196; ophthalmicus 84, 176; tarsalis 83; spp. Stenus ater, biguttatus, boops 83-4; clavicornis 83; comma 83-4; geniculatus, impressus 83; incrassatus 83-4; pallitarsis 80; palposus 80, 83; spp. 80 Stilbus testaceus 10 Subcoccinella 24-punctata 168-9 Sunius propinguus 10 Symbiotes latus 72 Tachinus 85; corticus, fimbriatus 83; frigidus 80; laticollis 251; marginellus 83; memnonius 80; proximus 34; signatus 80, 83-5; subterraneus, spp.

> 164; hypnorum 80-1, 83; obtusus 80-1, 84; solutus 84; spp. 80-1, 84

Thinobius brevipennis 255 Thinopinus pictus 81

Thyreocephalus albertisi, chloropterus, orthodoxus, phoenicopterus 81 Trechus rivularis 42

Trichonyx sulcicollis 90 Trogophloeus hemerinus 144

Trycherus erotyloides 96

Tytthaspis sedecimpunctata, s.f. poweri 54; 16-punctata 169-70

Urodontidae 95 Veleius dilatus 84 Vesperidae 150 white fringed beetle 97

Xantholinus cephalus 81, 84; glabratus 84; linearis 81, 84; longiventris 10, 81; selucens 152

Xanthopygus cognatus 81

COLLEMBOLA

Collembola 78-84

DERMAPTERA

adults 80 Dermaptera 83 earwigs 238

DICTYOPTERA

Acanthops 47 Choerododis 47 cockroaches 242 Ectobius pallidus 252 Galepsus toganus 47 Henschoutedenia epilamproides 96 Mantis 47 Miomantis 47 Phyllocrania 47 Pseudocreobotra 47 Sinomantis denticulata 45-8 Sphodromantis 47 Tarachodes 47 Theopompella 47

DIPLURA

Diplura 84

DIPTERA

Achalcus flavicollis, melanotrichus 26 Agromyzidae 97-8, 152

Allomyella crinipes, unguiculata 41 Alophora hemiptera 28

Alpinomyia (s.g.) 142

Americina adusta 40-1 Aphiura 75

Argyra grata 26 Atelestidae, Atelestus 11

Atherigona corrugata 199-201; nigeriensis 199–202; pallidipleura 199, 203–4; soccata 201–3

Azelia cilipes 34

Bathycranium bicolorellum 26

Beckerias 215

Bicellaria 11; nigrita, simplicipes 156;

sulcata 34 blackflies 122, 198 bluebottles 238

Bombylius canescens, major 160

Borborillus 153

Botanophila moriens 190

Brachyopa insensilis 208 Brachystoma 11

Calliphora erythrocephala 139; loewi 139, 142; uralensis 139-43; vicina 139-42;

vomitoria 139-40 Campsienemus pectinulatus, picticornia 26

Caricea tigrina 34 Centrioncidae 52

Cephalops libidinosus 215-7; navus,

semifumosus 217 Chaetosa churchilli 41 chironomid adults, larvae 80

Chironomus alluaudi, brunneus, imicola 37

? chloropid puparium 124

Chlorops cinctipes, limbata, pumilionis 245 Chrysotimus concinnus 26-7; molliculus 26

Chrysotus laesus, suavis 26 Cladotanytarsus sp. 37

Clinocerinae 12 Cochliarium 41

Coniosternum (s.g.) 40-1

Conopidae 60

Conops flavipes, quadrifasciatus 164 Coproica 153; ferruginata, vagans, 152

Copromyza 153, 155 Cordilura 39, 41; alberta, criddlei,

gracilipes, intermedia, 41; munda 40-1; pleuritica, praeusta, varipes 41 Cordylurella nana, nebulosa 41

Cosmetopus longus 41 Crossopalpus 12

Cryptotendipes graminicolor 37 Culicoides 155

Cyrtoma 11

Dasineura larvae 85

| Delininae 41 | Microchrysa polita 124-5 |
|---|---|
| Diameidae Diameia Inneigornia 52 | |
| Diopsidae, Diopsis longicornis 52 | Micromorphus albipes 26 |
| Diptera 77, 79–81; adults, 79–82, 84; eggs | Microprosopa flavinervis, haemorrhoidal |
| 77-8, 80-4; larvae 78-84; pupae 78, | 41 |
| 82-3 | Microphor, Microphoridae 11 |
| dipterous larva 18 | Micropselapha 41 |
| | |
| Dohrniphora cornuta 74 | ?Minilimosina 152 |
| Dolichocephala 12 | mosquitoes 122 |
| Dolichopus latelimbatus, linearis, | Musca 85 |
| longicornis, notatus, subpennatus, | Muscidae 152 |
| wahlbergi 25 | muscids 123 |
| Drapetis ephippiata, exilis 12 | Nanna 39; loewi 39-41; similis 41 |
| Drosophila 46, 85, 155, 240; husekii 153; | |
| Drosophila 46, 85, 155, 240; busckii 153; | Neochirosia nuda 40-1 |
| funebris 238; hydei 152–3; immigrans | Nupedia aestiva 190 |
| 153; melanogaster 153; 238-9; | Ocydromia, Ocydromiinae 11 |
| subobscura 152–3; sp. 152; pupae 85 | Oedalea minuta 11 |
| Drymeia hamata 34 | Okeniella dasyprocta 41 |
| Elachisoma aterrimum 152 | Ophiomyia 58 |
| | |
| Elaphropeza (s.g.) 12 | Orthacheta 39; cornuta, strigipes 39–41 |
| Eleocharis 246 | Oscinis approximatonervis 247; |
| Empidiae 11 | erythrocephala, ruficeps 246 |
| Empididae 11–2, 60 | Parasarcophaga albiceps 6; exuberans 1, 3 |
| Empis 11 | *jacobsoni, *portschinskyi 1, 5-6; |
| Eudorylas arthurianus, deansi, harrisi 121 | teretirostris, uliginosa 6 |
| | |
| Fannia canicularis 34 | Penetagromyza aloephaga, aloes 57-9; |
| fanniids 123 | similans 57–8 |
| fly larvae 252 | Pericoma 28 |
| Gimnomera cerea 39–41; subvittata 41 | Phania funesta 9 |
| Gloma 11 | Phoridae 73-6, 159 |
| Glossina palpalis, tachinoides 224 | Phrosia 41 |
| | |
| Gonarcticus alberta, arcticus 41 | Phyllodromia 12 |
| Heleomyza laevitrons 34 | Piezura boletorum 204 |
| Helina duplicata, reversio 34 | Platycoenosia mik(i) 204 |
| Hemerodromia, Hemerodromiinae 12 | Platypalpus 12; alter, commutatus, |
| Hercostomus angustifrons 121; assimilis, | ecalceatus 219; *rapidoides, rapidus |
| chalybeus, chrysozygus 25 | 219-20; stigmatellus 219 |
| Heteronychia boettcheriana 3-4; | Platypeza 11 |
| compactilobata 1-4; depressifrons 1, | |
| | Platypezidae 73, 75, 159 |
| 3-4; haemorrhoa 3 | Platypezinae 11 |
| Hexamitocera 41 | Plethochaeta testacea 40-1 |
| Hilara 11 | Pleurochaetella simpliceps 41 |
| Holoclera (s.g.) 34 | Poecilobothrus principalis 25 |
| houseflies 238 | Pogonota gilvipes, immunda, sahlbergi 41 |
| hoverflies 60 | Polypedilum vanderplanki 37 |
| Hybos 11; culiciformis 34 | |
| | Pseudomyopina 190 |
| Hybotidae 11–2 | Pseudopachychaeta approximatonervis |
| Hybotinae 11 | 243-4, 246-9; heleocharis 243, 246-9 |
| Hydromyza confluens 40–1 | ruficeps 243, 246–8 |
| Ischiolepta 153 | Psychoda 155 |
| Lamprochromus elegans 27 | ?Pullimosina 152 |
| Lasiosina cinctipes 243-5; heleocharis 249; | Puncticorpus cribratum 152 |
| intermedia 243-6 | Rachispoda (s.g.) 152 [-yole, error] |
| | Phomphomuic 12 aris 142 24 |
| Leopoldius signatus 164 | Rhamphomyia 12; morio 142; sciarina 34 |
| Leptocera sp. 152 | Rhaphium antennatum 26 |
| Leptopeza flavipes 11 | Rhynchomicropteron beaveri, brevipes, |
| Liriomyza trifolii 98 | muluensis 120; nepalensis 119-21; |
| Medetera ambigua, diadema, flavipes 26; | necaphidiforme 121; nudiventer 120- |
| muralis 25; nitida 25-6; oscillans, | silvestrii 120 |
| | |
| pallipes, petrophiloides, tristis 26 | Sargus bipunctatus 10; iridatus 125 |
| Megaphthalmoides unilineatus 41 | Scaptomyza pallida 153 |
| Megaselia 28; bovista 123-4, 159; | Scathophaga 39; aldrichi, apicalis, crinita |
| subfuscipes, tumida 74 | 41; grisea 40-1; incola 41; intermedia |
| Melanagromyza 58 | 40-1; litorea 34; maculipes 154; mollis |
| - | |

multisetosa, nigripalpis, nigrolimbata, obscurinervis, reses 41; stercoraria 154; varipes 41
Sciadoceridae 73
Sciapus contristans, longulus, maritimus 27
S[ciara] thomae 44
Sciomyzidae 60
screwworm 97
Sepsidae 152
Simuliidae 198
Simuliidae 198
Spatulapica (s.g.) 4

Spatulapica (s.g.) 4 Spaziphora cincta 41 Spelobia 152 Sphyracephala 52 Spilogona alpica 28; triangulifera 190

Stilpon 12 stratiomyid puparium 125 Sylvicola fenestralis 34 Symballophthalmus 12 Syneches muscarius 11 Syntormon monilis, pumilis 26

Syntormon monilis, pumilis 26 Syringogastridae 52 Syritta pipiens 124 Systenus 26

Systems 26 Tachydromia, Tachydromiae 11–2 'Tachydromiidae' 12 Tachydromiinae 11 Tachypeza 12

Tephritidae 220
Teuchophorus spinigerellus 26
Tipula limbata 116
Tomosvaryella novaezealandiae 215
Trichina clavipes 11

Trichopalpus obscurella, palpalis 41 Trichopeza 12; longicornis 11 Trichosia absurda 32; *hirtipennis 43–4;

splendens 43
Tricimba lineella 123
tsetse flies 223
Vanoyia tenuicornis 144
Volucella pellucens 34
Weberia pseudofunesta 9
Wittella 215

EPHEMEROPTERA

Afroptiloides (s.g.) 109 Afroptilum bicaudatum 109, 114; variegatum 111–4; varium 109–10 Centroptilum 109; varium 110

HEMIPTERA

aphids 77, 174, 242 cassava mealybug 97 Chorosoma schillingi 250 Coccidae 95 Corixa geoffroyi 145; iberica, punctata 145-9 date palm scale 97 Dicyphus epilobii 38; errans 38, 214; pallicornis 158, 214 Eupteryx aurata, cyclops, filicum, urticae 196 Eysarcoris fabricii 38 Fieberiella 61–70; anategea 61–6, 69; aschei, chioscola 65; gemelina 61, 65–7, 69; lindbergi 65–6; lugubris 61, 63–6, 69; macchiae 61, 65–6, 68–9; oenderi, pallida 65; septentrionalis 61, 65, 69 Hemiptera 217 Legnotus limbosus 150 Liocoris tripustularus 38 Nabis ferus 10 Natalaspis 49 Nilaparvata myersi 217 Pediopsis tiliae 242

HYMENOPTERA

Rugpapuaspis proxantennata 49-51

Psallus flavellus 38

Rastrococcus mealybug 97

Acantholyda posticalis 138 Andrena alfkenella, argentata 34; bimaculata, fulvago 76; flavipes 34; hattorfiana 76; nigriceps, nitidiuscula, pilipes 34 Andrenidae 127 ants 77, 119, 126 [nest], 242 Apis dorsata 242; mellifera 127, 241 Apocryptophagus robustus 190 Aprostocetus xanthopus 117 Aspilota globipes, *intermediana 157; vesparum 125; sp. 123-5 Astata pinguis 76 Basalys parva 123–6; tritoma 126; sp. Bombus lapidarius 165; pratorum 166; terrestris 108, 165-6 Bracon discoideus 33; histeromeroides 19–22; picticornis 33 Braconinae 191 carpenter bees 242 Cercerini, Cerceris 127 Chrysocharis viridis 8 Cirrospilus abastor, aratus, phorbas, vittatus 8 Colletes marginatus 34, 76 Crabroscutellatus 34 Cryptoprymna africanus, australiensis, atra, brama, crucigera, dixiana 205; paludicola 205-7 Dasypoda altercator 34, 76 Digonogastra 195 Diprion simile 138 Dorylus nigricans 96

Dynatogmus robustus 190

Entedon afranius 8; euphorion, longicornis, tibialis 197 Ericydnus aemnestus 187-8; aeneus 179 181, 183-4; apterogenes 179-81, 183, 185-8; atriceps 178, 187-8; atripes 182; atrovirens 177; baleus 180-1, 185, 187-8; basalis 187; bicolor 187-8; caudatus 178, 180, 182; dichrous 182: latiusculus 187; longicornis 178, 182–3, 185, 187; 1. ab. tasnadensis, 1. f apterogenes 187; paludatus 177-8, 182; pilosulus 179, 180, 183, 185-6; robustior 179, 181, 183-4; sipylus 179-81, 185-8; s. f. bicolor 179-81, 185, 188, strigosus 177-9, 181, 183-4, 186-7; ventralis 178, 180, 182-3, 187; v. var. biplagiatus 187; v. var. robustior 184 Eulophus cleopater 9; damicornis 7-8; metanira 8; ramicornis 7–8; thespius 8; tibialis 197; tidius 8; verbasci 55; xanthops, xanthopus 117 Eumenes coarctata 76; coarctatus 71; 118; *papillarius, p. papillarius 71 Eurytoma torymoides, sp. [nr aciculata] fire ants 97, 241 formicid adults 79-80; larvae 79-80, 83-4; pupae 84 Formicidae 242 Gastrancistrus 55-6; ater, glabellus, nitidulus, semicupreus, vulgaris 56 Geniocerus xanthops 117 Gnathobracon 191-5; babirussa 191; tremblayi 191-4 Gnathobraconinae 191 Grahamia clinius 9 Halictidae 127 Hedychrum niemalai 34 Histeromerus mystacinus 19, 22 honey bees 242 Hylaeus euryscapus 34 Hymenoptera, larvae 84 Hypoponera punctatissima 96 Lasioglossum angusticeps 34; laticeps 76; malachurus 34 Lasius brunneus 106; neglectus 242 Megachile leachella 34, 76 Melitta tricincta 34 Metallon atriceps 186-8 Microdiprion pallipes 138 Minotetrastichus ecus 117 Myrmica 233-4, 236-9; rubra 164, 238; sabuleti, schencki 239 Necremnus folia, tidius 8 Neochrysocharis aratus 8 Nomada fucata 34, 76; tormentillae 34 Oxybelus mandibularis 34 Paravespula germanica, vulgaris 242 Perilampus nigricornis, pallipes, ruficornis pest ants 242

Philanthus andalusiacus 130; bolivari 129; coaractatus 129–30, 135; coronatus 128–9; c. coronatus 128–9, 136; c. ibericus, c. orientalis 128; c. raptor, c. siculus 129; dufouri 129-30, 136; melliniformis 130; minor 129, 131 135-6; niloticus 129; pulchellus 130, 132-6; raptor 129; ruspatrix 128; sculpturatus 127, 130-3, 135-6; sieboldi 130; triangulum 34, 127, 136; t. abdelcader, t. bimaculatus, t. diadema, t. obliteratus, 128; venustus 130, 135-6 Phrudus *badensis 157 Podalonia hirsuta 76 Polistes 232; jadwigae 230 Polyrhacis militaris 96 Ponerinae 119 Pontania collactanea 29-33 Pseudepipona herrichii 76 Pseudoscolia martinezi 127 Rogadinae 191 Ropalidia 232, 241 Scambus vesicarius 33 Sigmophora brevicornis 56 Sphecophaga vesparum 242 Sphegigastrini 205 Sphex tropica 225 Stenogaster 232 Stomoctea 56; pallipes 55-6 Symphyta xi Tetrastichus 55; mokrzeckii 117 Trichopria aequata 123; clavatipes 124-6; verticillata 124, 126 Urocerus gigas 138 Vespa affinis 161-2, 225; analis 162; auraria 161-2; basalis 162; bellicosa 161-2; bicolor 162; binghami 161-3; cincta 162, 225; crabro 161-2; deusta 161-2; ducalis 161-2, 226-32; d. ducalis, d. pulchra 226-7; dybowskii 161-3; eulemoides 161-2; fervida 162; luctuosa 161-2; magnifica 161-3; mandarinia 161-3; m. soror 225; mocsaryana 162; mongolica 161-2; multimaculata 161-2; nigrans 162; oberthuri 161-2; orientalis, parallela, 162; philippinensis 161–2, 226–32; simillima 161–2; soror 161–3; suprunenkoi 161-3; tropica 161-2, 325, 228–32; t. anthracina 225–6; t. cebuana 226; t. deusta 225–6; t. ducalis 163, 225–7; t. esakii 163, 225, 227; t. eulemoides 225–6; t. haematodes, t. leefmansi 163, 225-6; t. loochooensis 163, 225, 227; t. philippinensis 225–6; t. pseudosoror 163, 225–7; t. pulchra 163, 225, 227; t. soror 225; t. trimeres, t. trisignata. t. tropica, t. unicolor 225-6; variabilis 162; velutina 161-2; v. auraria, v. nigrithorax, v. pruthii 163; vivax, walkeri, wilemani, 161-3

ISOPTERA

termites 77, 119, 241 Termitidae 119

LEPIDOPTERA

butterflies 96
Dendrolimus pini 117
Euproctis chrysorrhoea 117
grain borer 97
gypsy moth 97
Lepidoptera 72; adults 82–3; eggs 79–80; 82–3; immature stages 78; larvae 79–83; pupae 79, 82–3
Macrothylacia rubi 117
Maculinea alcon, arion 233; rebeli 233–4, 237–9
moths 96

ODONATA

Ischnura elegans 254; pumilio 253–5 Odonata 60

ORTHOPTERA

Jamaicana subguttata 96 Metrioptera roeselii 224 Orthoptera 47, 72

PLECOPTERA

Plecoptera 85

PSOCOPTERA

Caecilius ornatipennis 35 Drymopsocus valdiviensis 35 Haplophallus chilensis 35 Ptenospila delicatella 35

SIPHONAPTERA

Ischnopsyllus octactenus 195 Siphonaptera 83

THYSANOPTERA

thrips 242 Thysanoptera 78, 82, 85

TRICHOPTERA

Limnephilus pati 70 Trichoptera 70

GROUPS OTHER THAN INSECTA AND ARACHNIDA

Amphibia 96 Amphipoda 81 Annelida 51, 78–9, 83, 251 Aves 53, 96, 198, 238 Bacteria 36, 122 Isopoda 56, 79–82, 85, 236 Mammalia 52, 96, 195, 242, 251 Mollusca 79–80, 82–3, 96, 99, 143 Myriapoda 23, 79, 83–4, 96, 160, 176, 236, 252 Nematoda 51, 78–80, 82, 84–5 Platybelmintha 51

Platyhelmintha 51 Protozoa 198 Reptilia 96

ERRATA AND CORRIGENDA

| Line | For | | Read |
|---------|---|---|---|
| 15 (up) | Chrysozygos | | Chrysozygus |
| 25,31 | Enchy | | Enchyt |
| 15 | Orth. | | Dictyopt. |
| 12 (up) | Mitopius | | Mitopus |
| 8 (up) | Rachisyole | | Rachispoda |
| 16 | Scatophagidae | | Scathophagidae |
| 17 | | | Scathophaga |
| 3 (up) | | | Tytthaspis |
| | sorror | | soror |
| 22 (up) | insert p.95 between pp | 0.72 & | 96 |
| | 15 (up) 25, 31 15 12 (up) 8 (up) 16 17 3 (up) 11 (up) | 15 (up) Chrysozygos 25, 31 Enchy 15 Orth. 12 (up) Mitopius 8 (up) Rachisyole 16 Scatophagidae 57 Scatophaga 3 (up) Tythaspis 11 (up) sorror | 15 (up) Chrysozygos 25, 31 Enchy 15 Orth. 12 (up) Mitopius 8 (up) Rachisyole 16 Scatophagidae 57 Scatophaga 3 (up) Tythaspis 11 (up) sorror |

VOL. 126

^{&#}x27;Sitona lepidus 20' was omitted from the Coleoptera Index for Vol. 126.